

**Amendments to the Specification:**

Please amend the specification as follows:

Please replace paragraph number [0022] with the following rewritten paragraph:

[0022] It is evident from the foregoing discussion that the method of the preferred embodiments of the present invention can be implemented to the analysis of complex mixtures. One of the advantages of this method is that the components of such complex mixtures can be quantified without having to physically separate them. For example, monomer content in polymers can be quantified, including possibly rare monomer components like cross-link sites and/or end groups. In addition, the method may be extended to the characterization of polymers which include, but are not limited to, proteins, peptides or polypeptides. In addition, the method may be implemented in schemes for quality assurance/quality control (e.g., impurity detection and quantification). In a preferred embodiment, the method is applied to a sample that comprises a mixture of polymers, where the polymer or mixture of polymers comprises a soft segment BPA polycarbonate.